

ABSTRACT

A fluorine-containing copolymer obtained by copolymerizing tetrafluoroethylene, hexafluoropropylene and perfluoro vinyl ether as component monomers, wherein a weight ratio of tetrafluoroethylene, hexafluoropropylene and perfluoro vinyl ether units constituting the fluorine-containing copolymer is 70 to 95 : 5 to 20 : 0 to 10, respectively; the fluorine-containing copolymer having: a melt flow rate of 30 (g/10 minutes) or more; a volatile content index of 0.2 % by weight or less; and a stress relaxation modulus $G(t)$ (unit: dyn/cm²) which satisfies the following formula at $t = 0.1$ second when measured at a temperature of 310 °C:
$$G(0.1) > 7 \times 10^6 \times X^{-1.62} - 3000$$
where X denotes the melt flow rate (unit: g/10 minutes). Also disclosed is an insulating material composed of the fluorine-containing copolymer and an insulated cable having a core conductor coated with the fluorine-containing copolymer.